



AF/2614
Attorney Docket No. YOR920000739US1 JFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicants: S.H. Basson et al.
Docket No.: YOR920000739US1
Serial No.: 09/774,930
Filing Date: January 31, 2001
Group: 2614
Examiner: Michael Lee

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature: William E. Lewis Date: September 22, 2005

Title: Universal Closed Caption Portable Receiver

TRANSMITTAL OF APPEAL BRIEF

Mail Stop Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are the following documents relating to the above-identified patent application:

- (1) Response to Office Action; and
- (2) Supplemental Appeal Brief.

There is no additional fee due in conjunction with the response. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **International Business Machines Corporation Deposit Account No. 50-0510** as required to correct the error.

Respectfully submitted,

William E. Lewis

Date: September 22, 2005

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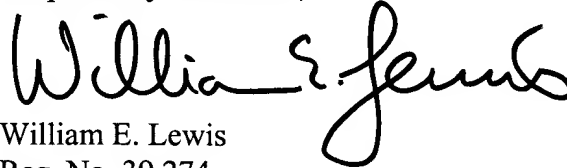
RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated June 22, 2005 in the above-referenced application, Applicants hereby request reinstatement of the appeal pursuant to 37 C.F.R. §1.193(b)(2). A Supplemental Appeal Brief is submitted concurrently herewith.

Respectfully submitted,



Date: September 22, 2005

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Signature: *Benjamin* Date: September 22, 2005

Title: Universal Closed Caption Portable Receiver

SUPPLEMENTAL APPEAL BRIEF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Supplemental Appeal Brief is submitted in response to the Office Action dated June 22, 2005 in the above-referenced application, in which the Examiner reopened prosecution in response to the Appeal Brief filed March 24, 2005.

Appellants have submitted concurrently herewith a response to the Office Action, requesting reinstatement of the appeal pursuant to 37 C.F.R. §1.193(b)(2).

Appellants hereby appeal the current rejection of claims 1-48 of the above-referenced application.

REAL PARTY IN INTEREST

The present application is assigned to International Business Machines Corp., as evidenced by an assignment recorded May 8, 2001 in the U.S. Patent and Trademark Office at Reel 11792, Frame 0853. The assignee, International Business Machines Corp., is the real party in interest.

RELATED APPEALS AND INTERFERENCES

There are no known related appeals or interferences.

STATUS OF CLAIMS

The present application was filed on January 31, 2001 with claims 1-48. Claims 1-48 are currently pending in the application. Claims 1, 15 and 32 are the independent claims.

Each of claims 1-9, 14-23, 28-30, 32-40 and 45-47 stands rejected under 35 U.S.C. §102(b). Each of claims 10-13, 24-27, 31, 41-44 and 48 stands rejected under §103(a). Claims 1-48 are appealed.

STATUS OF AMENDMENTS

There have been no amendments filed subsequent to the rejection.

SUMMARY OF CLAIMED SUBJECT MATTER

Independent claim 1 is directed to a method of processing a signal wherein at least a portion of the signal includes one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user. The method comprises the steps of: obtaining, directly from an originating source, the signal including the one or more closed captions in a portable processing device; autonomously processing the signal in the portable processing device so as to generate a display signal representative of the one or more closed captions in the obtained signal; and providing the display signal from the portable processing device to a portable display, operatively coupled to the device, for presentation to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display.

Independent claim 15 is directed to apparatus for processing a signal wherein at least a portion of the signal includes one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user. The apparatus comprises: a portable processing device including at least one processor operative to: (i) obtain, directly from an originating source, the signal including the one or more closed captions; and (ii) autonomously

process the signal so as to generate a display signal representative of the one or more closed captions in the obtained signal; and a portable display operatively coupled to the portable processing device and operative to receive and present the display signal to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display.

Independent claim 32 is directed to a closed captioning system comprising a closed caption receiver and a closed caption service system operatively coupled to the closed caption receiver. The closed caption receiver is configured to be carried by a user and includes: a portable processing device including at least one processor operative to: (i) obtain, directly from an originating closed caption service system, a signal including one or more closed captions representing audio content associated with a program whose visual content is being viewed by the user; and (ii) autonomously process the signal so as to generate a display signal representative of the one or more closed captions in the obtained signal; and a portable display operatively coupled to the portable processing device and operative to receive and present the display signal to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display. The closed caption service system includes at least one processor operative to: (i) generate the signal including the one or more closed captions; and (ii) provide the signal to the closed caption receiver.

Further, the present specification between page 3, line 4, and page 7, line 8, illustratively explains that, with a closed caption receiving device according to the invention, a person may come to a place where a program is being broadcasted on television without closed captioning services. The person may then set the device to the same channel as the program being broadcasted and see closed captions associated with the audio content of the program on the local wearable display system. Preferably, rather than transmitting all the broadcast information, the receiving device transmits only the closed captions for display on the local wearable display system. Thus, the user is able to simultaneously look at the television screen while reading the closed captions. However, it is to be appreciated that content other than the closed captions may be extracted and displayed on the local wearable display system, if so desired.

In yet another illustrative aspect, the present invention provides a portable and universal closed caption receiving device for receiving a signal including closed captions from a transcription service while the user views a program on a video/audio content display system in which no closed captioning capability is available such as, for example, one that may be associated with a personal computer or a movie theater. Again, in this case, the closed caption receiving device is used in conjunction with a separate display system carried by the user such as, for example, a wearable head mounted display. The closed captioning device receives the transcription services including closed captions from the transcription service provider while the user watches a movie or some other program in a theater or on a computer (e.g., a digital video disc) in which no closed captioning capability is available. In accordance with the invention, when a person sees that there is a movie being displayed on a computer screen or in a movie theater, the person may contact the transcription service and request a transcription of the program by name. The transcription service transmits the closed captions synchronously with events in the program. Several methods may be employed to synchronize the closed caption with the events in the program. For example, an operator associated with the service may be able to listen to the dialogue from the program so as to ensure that the transcription coincides with the program. Again, the closed captions, themselves, may be transmitted through a wireless network to the receiving device which then provides them to the user's wireless wearable head mounted display. Of course, the connection may be hardwired. In any case, this allows the person to look at the computer or theater screen through the wearable display and see the program while reading the captions on the wearable display comfortably.

It is to be appreciated that a stenographic service may be used in conjunction with the invention to type what is being broadcasted or shown in those cases when closed captioning is not readily available, e.g., live broadcasts. Thus, for instance, rather than requesting a prestored transcription, the user may request a real-time stenographic transcription of a live program.

In an illustrative embodiment depicted in FIG.1, a portable and universal closed caption receiving device or receiver 100 operates in conjunction with a head mounted display system 102 coupled thereto. The head mounted display system 102 comprises a microdisplay 103 mounted on a pair of eyeglasses 104. The closed caption receiver 100 and head mounted display system 102 are

deployed in an environment including a translator 106 and a television set 108 (Specification, page 8, line 6, through page 9, line 6). FIGs. 2 and 3 depict additional illustrative embodiments.

A more detailed embodiment of a closed caption receiving device according to the present invention is shown in FIG. 4. As shown, the closed caption receiving device 100 comprises a communication module 400, a closed caption (CC) receiving option module 401, a television CC extractor 402, a channel module 403, a processor 404, memory 405, a direct CC extractor 406, a voice/handheld controller input module 407, and a display signal generator 408 (Specification, page 17, lines 1-6).

GROUND OF REJECTION TO BE REVIEWED ON APPEAL

1. Claims 1-9, 14-23, 28-30, 32-40 and 45-47 are rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 5,946,046 to You et al. (hereinafter "You").
2. Claims 10-13, 24-27, 31, 41-44 and 48 are rejected under 35 U.S.C. §103(a) as being unpatentable over You.

ARGUMENT

Before presenting their arguments, Appellants respectfully point out that the You reference was previously cited in rejecting claims 1-48 in an Office Action dated February 2, 2004. Appellants responded in an Amendment and Response dated May 5, 2004 in which You was distinguished. In the next Office Action, the You reference was removed and new references were cited in the rejections. Now, it appears the Examiner has removed the previous references and reasserted the You reference.

GROUND 1

Claims 1, 15 and 32

The Manual of Patent Examining Procedure (MPEP), Eight Edition, August 2001, §2131, specifies that a given claim is anticipated "only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference," citing Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987).

Moreover, MPEP §2131 indicates that the cited reference must show the “identical invention . . . in as complete detail as is contained in the . . . claim,” citing Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989).

As explained above, the present invention, for example, as recited in independent claim 1, recites a method of processing a signal wherein at least a portion of the signal includes one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user. The method comprises the steps of: obtaining, directly from an originating source, the signal including the one or more closed captions in a portable processing device; autonomously processing the signal in the portable processing device so as to generate a display signal representative of the one or more closed captions in the obtained signal; and providing the display signal from the portable processing device to a portable display, operatively coupled to the device, for presentation to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display. Independent claims 15 and 32 recite similar limitations.

Such independent claims were previously amended to emphasize that the obtained signal including one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user is obtained in the portable processing device directly from an originating source, and that the processing of the signal in the portable processing device so as to generate a display signal representative of the one or more closed captions in the obtained signal is autonomous.

As illustratively explained in the present specification between page 3, line 4, through page 7, line 8:

Accordingly, with a closed caption receiving device according to the invention, a person may come to a place where a program is being broadcasted on television without closed captioning services. The person may then set the device to the same channel as the program being broadcasted and see closed captions associated with the audio content of the program on the local wearable display system. Preferably, rather than transmitting all the broadcast information, the receiving device transmits only the closed captions for display on the local wearable display system. Thus, the user is able to simultaneously look at the television screen while reading the closed captions. However, it is to be appreciated that

content other than the closed captions may be extracted and displayed on the local wearable display system, if so desired.

In yet another illustrative aspect, the present invention provides a portable and universal closed caption receiving device for receiving a signal including closed captions from a transcription service while the user views a program on a video/audio content display system in which no closed captioning capability is available such as, for example, one that may be associated with a personal computer or a movie theater. Again, in this case, the closed caption receiving device is used in conjunction with a separate display system carried by the user such as, for example, a wearable head mounted display. The closed captioning device receives the transcription services including closed captions from the transcription service provider while the user watches a movie or some other program in a theater or on a computer (e.g., a digital video disc) in which no closed captioning capability is available. In accordance with the invention, when a person sees that there is a movie being displayed on a computer screen or in a movie theater, the person may contact the transcription service and request a transcription of the program by name. The transcription service transmits the closed captions synchronously with events in the program. Several methods may be employed to synchronize the closed caption with the events in the program. For example, an operator associated with the service may be able to listen to the dialogue from the program so as to ensure that the transcription coincides with the program. Again, the closed captions, themselves, may be transmitted through a wireless network to the receiving device which then provides them to the user's wireless wearable head mounted display. Of course, the connection may be hardwired. In any case, this allows the person to look at the computer or theater screen through the wearable display and see the program while reading the captions on the wearable display comfortably.

It is to be appreciated that a stenographic service may be used in conjunction with the invention to type what is being broadcasted or shown in those cases when closed captioning is not readily available, e.g., live broadcasts. Thus, for instance, rather than requesting a prestored transcription, the user may request a real-time stenographic transcription of a live program.

You discloses a caption processing device and method for a display unit with a separate display. More particularly, as stated at column 2, lines 26-32, You provides a caption processing device for a display unit, wherein a caption display (e.g., an auxiliary display) separate from a monitor (e.g., television) which displays the video signal is included, so that the screen displaying the video signal is not covered by caption processing. However, as explained in the Background section of the present application, such systems suffer several problems. One problem with this arrangement is that the closed caption extractor does not operate independently from, or autonomously with respect to, the television. Another problem is that the auxiliary display is not portable.

Thus, You does not teach or suggest obtaining, directly from an originating source, the signal including the one or more closed captions in a portable processing device; autonomously processing the signal in the portable processing device so as to generate a display signal representative of the one or more closed captions in the obtained signal; and providing the display signal from the portable processing device to a portable display, operatively coupled to the device, for presentation to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display, as recited in the claimed invention.

For at least these reasons, Applicants respectfully assert that independent claims 1, 15 and 32 are patentable over You.

Claims 2-9, 14, 16-23, 28030, 33-40 and 45-47

I is respectfully asserted that the claims which depend from independent claims 1, 15 and 32 are patentable over You not only for the reasons given above but also because such claims recite patentable subject matter in their own right.

By way of example only, claims 2 and 16 recite that the visual content of the program is presented on a content display system and the portable processing device and the portable display are independent of the content display system. Again, despite any contention in the Office Action, there is no such autonomy in You.

Furthermore, at least with respect to independent claims 32-40 and 45, the Office Action appears to suggest that You inherently includes a closed caption service system. According to the Court of Customs and Patent Appeals (CCPA), “[i]nherency does not mean that a thing might be done, or that it might happen, ...; but it must be disclosed, if inherency is claimed, that the thing will necessarily happen.” In re Draeger et al., 150 F.2d 572, 574 (CCPA 1945). Furthermore, well-settled law “requires that inherency may not be established by possibilities and probabilities [t]he evidence must show that the inherency is necessary and inevitable.” Interchemical Corp. v. Watson, 145 F.Supp. 179, 182, 111 USPQ 78, 79 (D. D.C. 1956), *aff’d*, 251 F.2d 390, 116 USPQ 119 (D.C. Cir. 1958). The Office Action makes no showing whatsoever that a closed caption service system necessarily and inevitably flows from the You system.

GROUND 2

Claims 10-12, 24-27, 41-44 and 48

Regarding the §103(a) rejection of claims 10-12, 24-27, 41-44 and 48 based on You, Appellants assert that such a combination fails to establish a prima facie case of obviousness as specified in M.P.E.P. §2143.

As set forth therein, M.P.E.P. §2143 states that three requirements must be met to establish a prima facie case of obviousness. First, there must be some suggestion or motivation to combine reference teachings. Second, there must be a reasonable expectation of success. Third, the cited combination must teach or suggest all the claim limitations. While it is sufficient to show that a prima facie case of obviousness has not been established by showing that one of the requirements has not been met, Appellants respectfully believe that none of the requirements have been met.

For example, with respect to claim 10 (“receiving the signal including the one or more closed captions from a closed caption translation service”), there is a clear lack of motivation to modify the reference to achieve the features of claim 10. For at least this reason, a prima facie case of obviousness has not been established. You appears to be directed to a caption processing system. However, other than a very general and conclusory statement in the Office Action, there is nothing in the reference that reasonably suggests why one would actually modify the teachings of the reference to achieve the features of claim 10..

The Federal Circuit has stated that when patentability turns on the question of obviousness, the obviousness determination “must be based on objective evidence of record” and that “this precedent has been reinforced in myriad decisions, and cannot be dispensed with.” In re Sang-Su Lee, 277 F.3d 1338, 1343 (Fed. Cir. 2002). Moreover, the Federal Circuit has stated that “conclusory statements” by an examiner fail to adequately address the factual question of motivation, which is material to patentability and cannot be resolved “on subjective belief and unknown authority.” Id. at 1343-1344.

In the Office Action at page 5, the Examiner provides the following statement to prove motivation to modify You, with emphasis supplied: “[i]t would have been obvious to one of ordinary skill in the art at the time the invention was made to translate the closed captions into many different

languages so that different language spoken viewers could watch the television programs without any difficulty.”

Appellants submit that this statement is based on the type of “subjective belief and unknown authority” that the Federal Circuit has indicated provides insufficient support for an obviousness rejection. More specifically, the Examiner fails to identify any objective evidence of record which supports the proposed modification.

Second, Appellants assert that there is no reasonable expectation of success in achieving the present invention through a modification of You. No guidance is provide in the Office Action.

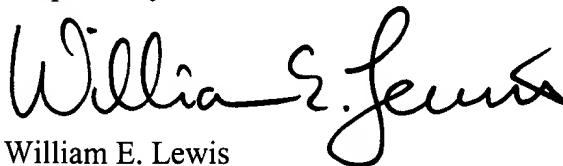
Third, Appellants assert that You fails to teach or suggest all of the claim limitations of the subject claims. For at least this reason, a prima facie case of obviousness has not been established. By way of example, see the deficiencies described above with regard to You.

Claims 13 and 31

Regarding the §103(a) rejection of claims 13 and 31 based on You, Appellants assert that it would not be obvious to include a head mounted display system or voice-based instruction. Appellants also challenge the taking of Official Notice and request a reference be cited that properly supports the Examiner’s position.

In view of the above, Appellants believe that claims 1-48 are in condition for allowance, and respectfully requests the withdrawal of the §102(b) and §103(a) rejections.

Respectfully submitted,



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Date: September 22, 2005

CLAIMS APPENDIX

1. A method of processing a signal wherein at least a portion of the signal includes one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user, the method comprising the steps of:

obtaining, directly from an originating source, the signal including the one or more closed captions in a portable processing device;

autonomously processing the signal in the portable processing device so as to generate a display signal representative of the one or more closed captions in the obtained signal; and

providing the display signal from the portable processing device to a portable display, operatively coupled to the device, for presentation to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display.

2. The method of claim 1, wherein the visual content of the program is presented on a content display system and the portable processing device and the portable display are independent of the content display system.

3. The method of claim 2, wherein the content display system is one of a television set, a computer display, and a movie theater screen.

4. The method of claim 1, wherein the closed captions presented to the user on the portable display are substantially synchronized with the visual content of the program being viewed by the user.

5. The method of claim 1, wherein the obtaining step comprises receiving the signal including the one or more closed captions from a transcription service.

6. The method of claim 5, wherein the transcription service is configured to prestore transcriptions corresponding to audio content associated with programs, generate a signal including

one or more closed captions from a requested transcription, and transmit the signal to the portable processing device.

7. The method of claim 5, wherein the transcription service is configured to generate a transcription associated with a program in real-time upon request, generate a signal including one or more closed captions from the real-time transcription, and transmit the signal to the portable processing device.

8. The method of claim 7, wherein the real-time transcription is generated via at least one of a human stenographer, an automatic speech recognition system, and real-time alignment of a prestored transcription.

9. The method of claim 5, wherein the transcription service is configured to provide the closed captions in one or more different languages.

10. The method of claim 1, wherein the obtaining step comprises receiving the signal including the one or more closed captions from a closed caption translation service.

11. The method of claim 10, wherein the obtained signal is a broadcast television signal.

12. The method of claim 11, wherein the visual content of the program is presented on a television set and the broadcast television signal is obtained from the closed caption translation service via redirection from the television set.

13. The method of claim 1, wherein the portable display is a head mounted display system.

14. The method of claim 1, wherein the portable device and the source are in communication via one of a wired link and a wireless link.

15. Apparatus for processing a signal wherein at least a portion of the signal includes one or more closed captions representing audio content associated with a program whose visual content is being viewed by a user, the apparatus comprising:

a portable processing device including at least one processor operative to: (i) obtain, directly from an originating source, the signal including the one or more closed captions; and (ii) autonomously process the signal so as to generate a display signal representative of the one or more closed captions in the obtained signal; and

a portable display operatively coupled to the portable processing device and operative to receive and present the display signal to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display.

16. The apparatus of claim 15, wherein the visual content of the program is presented on a content display system and the portable processing device and the portable display are independent of the content display system.

17. The apparatus of claim 16, wherein the content display system is one of a television set, a computer display, and a movie theater screen.

18. The apparatus of claim 15, wherein the closed captions presented to the user on the portable display are substantially synchronized with the visual content of the program being viewed by the user.

19. The apparatus of claim 15, wherein the obtaining operation comprises receiving the signal including the one or more closed captions from a transcription service.

20. The apparatus of claim 19, wherein the transcription service is configured to prestore transcriptions corresponding to audio content associated with programs, generate a signal including one or more closed captions from a requested transcription, and transmit the signal to the portable device.

21. The apparatus of claim 19, wherein the transcription service is configured to generate a transcription associated with a program in real-time upon request, generate a signal including one or more closed captions from the real-time transcription, and transmit the signal to the portable device.

22. The apparatus of claim 21, wherein the real-time transcription is generated via at least one of a human stenographer, an automatic speech recognition system, and real-time alignment of a prestored transcription.

23. The apparatus of claim 19, wherein the transcription service is configured to provide the closed captions in one or more different languages.

24. The apparatus of claim 15, wherein the obtaining operation comprises receiving the signal including the one or more closed captions from a closed caption translation service.

25. The apparatus of claim 24, wherein the obtained signal is a broadcast television signal.

26. The apparatus of claim 25, wherein the visual content of the program is presented on a television set and the broadcast television signal is obtained from the closed caption translation service via redirection from the television set.

27. The apparatus of claim 15, wherein the portable display is a head mounted display system.

28. The apparatus of claim 15, wherein the portable processing device and the source are in communication via one of a wired link and a wireless link.

29. The apparatus of claim 28, wherein the portable processing device further comprises a communication module for providing an interface for the communication link.

30. The apparatus of claim 15, wherein the portable processing device further comprises an input controller operatively coupled to the processor for allowing the user to enter one or more instructions to the processing device.

31. The apparatus of claim 15, wherein the portable processing device further comprises a microphone operatively coupled to the processor for allowing the user to enter one or more voice-based instructions to the processing device.

32. A closed captioning system, comprising:

a closed caption receiver configured to be carried by a user including:

a portable processing device including at least one processor operative to: (i) obtain, directly from an originating closed caption service system, a signal including one or more closed captions representing audio content associated with a program whose visual content is being viewed by the user; and (ii) autonomously process the signal so as to generate a display signal representative of the one or more closed captions in the obtained signal; and

a portable display operatively coupled to the portable processing device and operative to receive and present the display signal to the user so that the user may view the visual content of the program and view the one or more closed captions in accordance with the portable display; and

a closed caption service system, operatively coupled to the closed caption receiver, including at least one processor operative to: (i) generate the signal including the one or more closed captions; and (ii) provide the signal to the closed caption receiver.

33. The system of claim 32, wherein the visual content of the program is presented on a content display system and the closed caption receiver is independent of the content display system.

34. The system of claim 33, wherein the content display system is one of a television set, a computer display, and a movie theater screen.

35. The system of claim 32, wherein the closed captions presented to the user on the portable display are substantially synchronized, at the closed caption service system, with the visual content of the program being viewed by the user.

36. The system of claim 32, wherein the closed caption service system comprises a transcription service.

37. The system of claim 36, wherein the transcription service is configured to prestore transcriptions corresponding to audio content associated with programs, generate a signal including one or more closed captions from a requested transcription, and transmit the signal to the closed caption receiver.

38. The system of claim 36, wherein the transcription service is configured to generate a transcription associated with a program in real-time upon request, generate a signal including one or more closed captions from the real-time transcription, and transmit the signal to the closed caption receiver.

39. The system of claim 38, wherein the real-time transcription is generated via at least one of a human stenographer, an automatic speech recognition system, and real-time alignment of a prestored transcription.

40. The system of claim 36, wherein the transcription service is configured to provide the closed captions in one or more different languages.

41. The system of claim 32, wherein the closed caption service system comprises a translation service.

42. The system of claim 41, wherein the obtained signal by the closed caption receiver is a broadcast television signal.

43. The system of claim 42, wherein the visual content of the program is presented on a television set and the broadcast television signal is obtained from the translation service by the closed caption receiver via redirection from the television set.

44. The system of claim 32, wherein the portable display is a head mounted display system.

45. The system of claim 32, wherein the closed caption receiver and the closed caption service system are in communication via one of a wired link and a wireless link.

46. The system of claim 45, wherein the portable processing device further comprises a communication module for providing an interface for the communication link.

47. The system of claim 32, wherein the closed caption receiver further comprises an input controller operatively coupled to the processor for allowing the user to enter one or more instructions to the processing device.

48. The system of claim 32, wherein the closed caption receiver further comprises a microphone operatively coupled to the processor for allowing the user to enter one or more voice-based instructions to the processing device.

EVIDENCE APPENDIX

None

RELATED PROCEEDINGS APPENDIX

None